IN THE CLAIMS:

1. (Currently Amended) A method comprising:

rotating a substrate at a predefined speed, the substrate having a first surface;

spray coating the first surface of the substrate with a negative-tone photoresist-solvent solution at an angle to the first surface to obtain coverage of deep etched features, the solvent having a higher volatility rate than the negative-tone photoresist, the negative-tone photoresist to solvent ratio being in the range of one to three and one to five and a half and having a viscosity of between one and three centipoises; and

moving a spray nozzle across the diameter of the first surface of the substrate at varying speeds to achieve a negative-tone photoresist coat of substantially the same thickness throughout the first surface.

- (Original) The method of claim 1 further comprising:
 priming the first surface of the substrate with a primer having a water
 contact angle between forty and fifty degrees.
- 3. (Original) The method of claim 2 wherein, once primed, the photoresist can be sprayed in environments having relative humidity levels as high as sixty percent.
- 4. (Original) The method of claim 1 wherein the negative-tone photoresist is a cyclohexanone-based resist and the solvent is methyl-ethyl-ketone.

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5. (Currently Amended) A method comprising:

rotating a substrate at a predefined speed, the substrate having a first surface;

spray coating the first surface of the substrate with a positive-tone photoresist-solvent solution at an angle to the first surface to obtain coverage of deep etched features, the solvent having a higher volatility rate than the positive-tone photoresist, the positive-tone photoresist to solvent ratio being in the range of one to five and one to seven and having a viscosity of between one and three centipoises; and

moving a spray nozzle across the diameter of the first surface of the substrate at varying speeds to achieve a positive-tone photoresist coat of substantially the same thickness throughout the first surface.

- 6. (Original) The method of claim 5 further comprising: priming the first surface of the substrate with a primer having a water contact angle between forty and fifty degrees.
- 7. (Original) The method of claim 6 wherein, once primed, the photoresist can be sprayed in environments having relative humidity levels as high as sixty percent.
- 8. (Original) The method of claim 5 wherein the positive-tone photoresist is a propylene glycol monomethyl ether acetate-based resist and the solvent is methyl-ethyl-ketone.
- 9. (Original) The method of claim 5 wherein the deep etched features are deeper than 20 μm .

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- $\,$ 10. (Original) The method of claim 5 wherein the deep etched features are deeper than 200 $\mu m.$
- 11. (Previously Presented) A method for coating photoresist on a substrate having deep features comprising:

cleaning the substrate by immersing it into a cleaning solution;

rinsing the substrate in ultrapure water;

thoroughly drying the substrate;

priming the substrate by immersing it into a priming solution, the priming solution having a water contact angle of between forty and fifty degrees;

rinsing the substrate in ultrapure water to remove excess priming solution;

thoroughly drying the substrate; and

spray coating the substrate with a photoresist, wherein the photoresist is sprayed at an angle to the substrate surface.

12. (Original) The method of claim 11 wherein

the substrate is immersed into a cleaning solution of peroxide-sulfuric for five to fifteen minutes, and

the substrate is rinsed in ultrapure water for five to ten minutes.

- $\,$ 13. (Original) The method of claim 11 wherein the deep features are deeper than 20 $\mu m.$
- 14. (Original) The method of claim 11 wherein the deep features are deeper than 200 μm .

- 15. (Original) The method of claim 11 wherein the priming solution has a water contact angle of between forty and fifty degrees.
- 16. (Original) The method of claim 11 wherein, once primed, the photoresist can be sprayed in environments having relative humidity levels as high as sixty percent.
- 17. (Original) The method of claim 11 wherein the photoresist is a negativetone photoresist that is diluted with a solvent, the negative-tone photoresist to solvent ratio being in the range of one to three and one to five and a half.
- 18. (Original) The method of claim 11 wherein the photoresist is a positive-tone photoresist that is diluted with a solvent, the positive-tone photoresist to solvent ratio being in the range of one to five and one to seven.